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1 [Introduction—discrete event simulation](#)
[Philip Heidelberger](#)

 October 1990 **Communications of the ACM**, Volume 33 Issue 10

Publisher: ACM [Request Permissions](#)

 Full text available: [Pdf](#) (829.44 KB)

 Additional Information: [full citation](#), [abstract](#), [re](#)
Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 70, Citation

This special section deals with the simulation of complex systems, such as communications, and manufacturing systems—specifically focusing on simulation. Such systems are typically (but not always) modeled by ...

2 [O\(log log n\)-competitive dynamic binary search trees](#)
[Chengwen Chris Wang](#), [Jonathan Derryberry](#), [Daniel Dominic Sleator](#)

 January 2006 **SODA '06: Proceedings of the seventeenth annual ACM-SIAM algorithm**
Publisher: ACM [Request Permissions](#)

 Full text available: [Pdf](#) (253.30 KB)

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Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 65, Citation

The Dynamic Optimality Conjecture [ST85] states that splay trees are a competitive factor) among the class of all binary search tree (BST) algorithms. Research on this conjecture is still unresolved. Recently, ...

3 [GDT4MAS: an extension of the GDT model to specify and to verify A](#)

Bruno Mermet, Gaële Simon

 May 2009 **AAMAS '09: Proceedings of The 8th International Conference on Agents and Multiagent Systems - Volume 1**, Volume 1

Publisher: International Foundation for Autonomous Agents and Multiagent Systems

 Full text available: [Pdf](#) (329.33 KB)

 Additional Information: [full citation](#), [abstract](#), [re](#)
Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 4, Citation C

The Goal Decomposition Tree model has been introduced in 2005 by Mermet to verify the behaviour of an agent evolving in a dynamic environment. The interesting characteristics such as its compositional ...

Keywords: GDTs, multiagent systems, specification, temporal logic, ve

Scalable pseudo-likelihood estimation in hybrid random fields

Antonino Freno, Edmondo Trentin, Marco Gori

June 2009 **KDD '09**: Proceedings of the 15th ACM SIGKDD international conference on data mining and data mining

Publisher: ACM  [Request Permissions](#)


Full text available:  Pdf (452.27 KB) Additional Information: [full citation](#), [abstract](#), [re](#)

Bibliometrics: Downloads (6 Weeks): 26, Downloads (12 Months): 26, Citation

Learning probabilistic graphical models from high-dimensional datasets is a challenging task. In many interesting applications, the domain dimensionality is high, and state-of-the-art statistical learning techniques from delivering ...

Keywords: bayesian networks, hybrid random fields, markov random fields

5 On-demand materialization of aspects for application development

 Chang Hwan Peter Kim, Krzysztof Czarnecki, Don Batory

March 2008 **SPLAT '08**: Proceedings of the 2008 AOSD workshop on Software languages and aspect technologies

Publisher: ACM  [Request Permissions](#)


Full text available:  Pdf (306.28 KB) Additional Information: [full citation](#), [abstract](#), [re](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 27, Citation

Framework-based application development requires applications to be organized according to rules, recipes and conventions that are documented or assumed by the Programming Interface (API), thereby giving rise to systematic usage ...



Keywords: AOP, application development, frameworks, materializable

6 Programming by a sample: rapidly creating web applications with d.r

 Björn Hartmann, Leslie Wu, Kevin Collins, Scott R. Klemmer

October 2007 **UIST '07**: Proceedings of the 20th annual ACM symposium on User interface technology

Publisher: ACM  [Request Permissions](#)


Full text available:  Pdf (3.87 MB),  Wmv (3:43 MIN) Additional Information: [full citation](#), [abstract](#), [re](#)

Bibliometrics: Downloads (6 Weeks): 18, Downloads (12 Months): 215, Citation

Source-code examples of APIs enable developers to quickly gain a gestational functionality, and they support organically creating applications by incrementally adding functional starting point. As an increasing number of ...

Keywords: mashups, programming by example modification, prototyping

7 SCIRun: a scientific programming environment for computational science


 Steven G. Parker, Christopher R. Johnson

December 1995 **Supercomputing '95**: Proceedings of the 1995 ACM/IEEE Supercomputing (CDROM)

Publisher: ACM

Full text available:

Additional Information: [full citation](#), [abstract](#), [re](#)


 [Html](#) (41.29 KB)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 34, Citation

We present the design, implementation and application of SCIRun, a sci environment that allows the interactive construction, debugging and ste computations. Using this "computational workbench," a scientist ...



Keywords: steering, interactive, dataflow, visual programming, scienti

8 [Interactive visual editing of grammars for procedural architecture](#)

 [Markus Lipp, Peter Wonka, Michael Wimmer](#)

August 2008 **SIGGRAPH '08**: SIGGRAPH 2008 papers

Publisher: ACM  [Request Permissions](#)

Full text available:  [Mov](#) (19:3 MIN),  [Pdf](#) (5.17 MB) Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 47, Downloads (12 Months): 484, Citati


We introduce a real-time interactive visual editing paradigm for shape g creation of rulebases from scratch without text file editing. In previous procedural techniques were successfully applied to the creation ...

Keywords: architectural modeling, procedural modeling, shape gramm

Also published in:

August 2008 **Transactions on Graphics (TOG)** Volume 27 Issue 3

9 [Transparency, holophrasing, and automatic layout applied to contro dataflow programming languages](#)

 [Simon Gauvin, Omid Banyasad](#)

September 2006 **SoftVis '06**: Proceedings of the 2006 ACM symposium on

Publisher: ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (241.68 KB) Additional Information: [full citation](#), [abstract](#), [re](#)

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 66, Citation


Control flow within dataflow visual programming languages such as Proj due to hidden dependencies created by the control structures that desp independent views. We have created a model arising from ...

Keywords: HCI, control flow, control structures, data flow, visual langu

10 [Over-encryption: management of access control evolution on outsou Sabrina De Capitani di Vimercati, Sara Foresti, Sushil Jajodia, Stefano Para](#)

September 2007 **VLDB '07**: Proceedings of the 33rd international conferenc

Publisher: VLDB Endowment

Full text available:  [Pdf](#) (311.00 KB) Additional Information: [full citation](#), [abstract](#), [re](#)

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 101, Citati

Data outsourcing is emerging today as a successful paradigm allowing u

exploit external services for the distribution of resources. A crucial problem context concerns the enforcement of selective authorization ...

11 [Dependency trees in sub-linear time and bounded memory](#)

[Dan Pelleg](#), [Andrew Moore](#)

September 2006 **The VLDB Journal — The International Journal on Very Large Databases** 15 Issue 3

Publisher: Springer-Verlag New York, Inc.

Full text available:  [Pdf](#) (585.87 KB) Additional Information: [full citation](#), [abstract](#), [request permissions](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 21, Citation

We focus on the problem of efficient learning of dependency trees. Once a special case of a Bayesian network, for PDF approximation, and for missing data, a well-known algorithm can fit an optimal tree in ...


Keywords: Data mining, Dependency trees, Fast algorithms, Probably learning

12 [A trusted mobile phone reference architecture via secure kernel](#)

 [Xinwen Zhang](#), [Onur Acilmez](#), [Jean-Pierre Seifert](#)

November 2007 **STC '07: Proceedings of the 2007 ACM workshop on Scalable Trusted Computing**

Publisher: ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (446.42 KB) Additional Information: [full citation](#), [abstract](#), [request permissions](#)

Bibliometrics: Downloads (6 Weeks): 21, Downloads (12 Months): 237, Citation

Driven by the ever increasing information security demands in mobile devices, the Computing Group (TCG) formed a dedicated group - Mobile Phone Workgroup to address the security needs of mobile platforms. Along this direction, the

Keywords: SELinux, isolation, secure kernel, security architecture, trusted computing

13 [How to build repeatable experiments](#)

 [Gregory Gay](#), [Tim Menzies](#), [Bojan Cukic](#), [Burak Turhan](#)

May 2009 **PROMISE '09: Proceedings of the 5th International Conference on Software Engineering**

Publisher: ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (685.61 KB) Additional Information: [full citation](#), [abstract](#), [request permissions](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 18, Citation

The mantra of the PROMISE series is "repeatable, improvable, maybe reusable experiments. This community has successfully created a library of reusable sets. The next challenge in the PROMISE community ...


Keywords: algorithms, experimentation, measurement

14 [Using software architecture techniques to support the modular certification of systems](#)

[Tim Kelly](#)

May 2007 **SCS '06: Proceedings of the eleventh Australian workshop on systems and software - Volume 69**, Volume 69

Publisher: Australian Computer Society, Inc.

Full text available:  [Pdf](#) (176.67 KB) Additional Information: [full citation](#), [abstract](#), [request permissions](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 81, Citation

In software engineering the role of *software architecture* as a means of achieving emergent qualities such as modifiability is increasingly well understood. We demonstrate how many principles from the field ...


Keywords: architecture, certification, composition, justification, modular

15 [Declarative information extraction using datalog with embedded extraction](#)
[Warren Shen, AnHai Doan, Jeffrey F. Naughton, Raghu Ramakrishnan](#)
 September 2007 **VLDB '07: Proceedings of the 33rd international conference on VLDB**
Publisher: VLDB Endowment

Full text available:  [Pdf](#) (313.40 KB) Additional Information: [full citation](#), [abstract](#), [request permissions](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 98, Citation

In this paper we argue that developing information extraction (IE) programs using embedded procedural extraction predicates is a good way to proceed. For ad hoc composition using, e.g., Perl or C++ , Datalog provides ...

16 [Modeling and visualization of leaf venation patterns](#)
 [Adam Runions, Martin Fuhrer, Brendan Lane, Pavol Federl, Anne-Gaëlle Ro Prusinkiewicz](#)
 July 2005 **SIGGRAPH '05: SIGGRAPH 2005 Papers**

Publisher: ACM  [Request Permissions](#)

Full text available:  [Mov](#) (22:51 MIN),  [Pdf](#) (1.05 MB) Additional Information: [full citation](#), [abstract](#), [index terms](#)


Bibliometrics: Downloads (6 Weeks): 33, Downloads (12 Months): 262, Citation

We introduce a class of biologically-motivated algorithms for generating realistic images. Our algorithms simulate the interplay between three processes: (1) development of hormone (auxin) sources embedded in the leaf blade; (2) ...

Keywords: Voronoi diagram, auxin, leaf growth, modeling of natural plant growth, realistic image synthesis, relative neighborhood, vein development

Also published in:

July 2005 **Transactions on Graphics (TOG)** Volume 24 Issue 3

17 [Exploring biologically-inspired evolvable network applications with the](#)
 [Chonho Lee, Hiroshi Wada, Junichi Suzuki](#)
 December 2006 **BIONETICS '06: Proceedings of the 1st international conference on network, information and computing systems**


Publisher: ACM

Full text available:  [Pdf](#) (566.34 KB) Additional Information: [full citation](#), [abstract](#), [request permissions](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 33, Citation


The BEYOND architecture applies biological principles and mechanisms to applications that autonomously adapt to dynamic environmental ...

18 [Attribute based compiler implemented using visitor pattern](#)

 [Norman Neff](#)

March 2004 **SIGCSE '04**: Proceedings of the 35th SIGCSE technical symposium on computer science education

Publisher: ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (202.50 KB) Additional Information: [full citation](#), [abstract](#), [request permissions](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 44, Citation


In our compiler course for undergraduate students, we use a class of attribute grammar to compute type information, target code, and other properties calculated for the semantics of the compiler, a modification of the visitor design ...

Keywords: attribute grammars, compiler design, design patterns, education, object-oriented programming

Also published in:

March 2004 **SIGCSE Bulletin** Volume 36 Issue 1

19 [MultiJava: Design rationale, compiler implementation, and application](#)

 [Curtis Clifton](#), [Todd Millstein](#), [Gary T. Leavens](#), [Craig Chambers](#)

May 2006 **Transactions on Programming Languages and Systems** (TOPLAS)

Publisher: ACM  [Request Permissions](#)


Full text available:  [Pdf](#) (1.14 MB) Additional Information: [full citation](#), [abstract](#), [request permissions](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 98, Citation

MultiJava is a conservative extension of the Java programming language that supports multiple dispatch and open classes. Among other benefits, multiple dispatch solves the binary method problem. Open classes provide a solution to ...

Keywords: Java language, MultiJava language, Open classes, augmenting the binary method problem, encapsulation, expression problem, extensible classes, generic methods, external methods, generic functions, inheritance, method families, multimethods, multiple dispatch, object-oriented programming language, static compilation, single dispatch, static typechecking, subtyping

20 [Adaptive runtime layout of hierarchical UI components](#)

 [Heikki Keränen](#), [Johan Plomp](#)

October 2002 **NordiCHI '02**: Proceedings of the second Nordic conference on human-computer interaction

Publisher: ACM

Full text available:  [Pdf](#) (251.85 KB) Additional Information: [full citation](#), [abstract](#), [request permissions](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 53, Citation

Emerging small mobile terminals, each having a different screen size, challenge user interface designers of multi-platform applications and services. In this paper, we present an adaptive runtime layout algorithm for hierarchical UI components.





method which considers the screen size of the terminal ...

Keywords: adaptive user interfaces, constant information density, elas
zoomable user interfaces

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